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TITLE: AUTOMATIC STEERING CONTROLLER OF TRACTOR

PUBN-DATE: June 12, 1982

INVENTOR-INFORMATION:

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APPL-NO: JP55171835

APPL-DATE: December 4, 1980

US-CL-CURRENT: 318/590

INT-CL (IPC): G05D 1/02; A01B 69/00; B62D 1/28

ABSTRACT:

PURPOSE: To avoid a runaway state of an automatic steering controller of a tractor, by producing an alarm with the switching given to a manual operation mode when a main control part has a faulty operation and quickly letting the operator know the occurrence of the fault.

CONSTITUTION: A faulty operation of a digital control circuit 18 is detected by a monitor circuit 40, and the output of a comparator 28 is set at an L level. Thus a transistor Tr2 is turned ON via an NAND circuit 23, and a notice display lamp 33 glows. At the same time, a Tr1 is also turned on to drive an automatic release relay XR. The contact SW4 of the relay XR is opened. Then an automatic holding relay Xa is turned OFF with its contact SW3 opened too. As a result, an automatic control operation mode is released at an operation switch part, and accordingly a steering hydraulic cylinder 29 is actuated by a manual operation of a handle 31. Thus a front wheel 14 is turned.

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